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1 [The benefits and costs of DyC's run-time optimizations](#)

Brian Grant, Markus Mock, Matthai Philipose, Craig Chambers, Susan J. Eggers

 September 2000 **ACM Transactions on Programming Languages and Systems (TOPLAS)**, Volume 22 Issue 5

 Full text available: [pdf\(1.59 MB\)](#)

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DyC selectively dynamically compiles programs during their execution, utilizing the run-time-computed values of variables and data structures to apply optimizations that are based on partial evaluation. The dynamic optimizations are preplanned at static compile time in order to reduce their run-time cost; we call this staging. DyC's staged optimizations include (1) an advanced binding-time analysis that supports polyvariant specialization (enabling both single-way and multi ...

Keywords: dynamic compilation, specialization

2 [Calpa: a tool for automating selective dynamic compilation](#)

Markus Mock, Craig Chambers, Susan J. Eggers

 December 2000 **Proceedings of the 33rd annual ACM/IEEE international symposium on Microarchitecture**

 Full text available: [pdf\(117.36 KB\)](#)
[ps\(313.09 KB\)](#)
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 Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

3 [An evaluation of staged run-time optimizations in DyC](#)

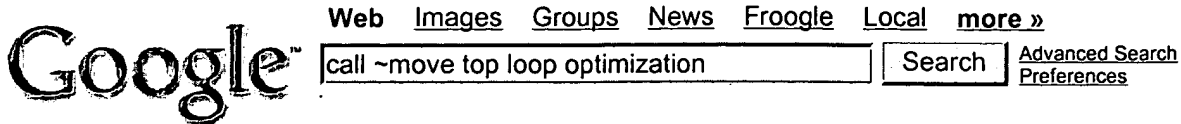
Brian Grant, Matthai Philipose, Markus Mock, Craig Chambers, Susan J. Eggers

 May 1999 **ACM SIGPLAN Notices , Proceedings of the ACM SIGPLAN 1999 conference on Programming language design and implementation**, Volume 34 Issue 5

 Full text available: [pdf\(1.54 MB\)](#)

 Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Previous selective dynamic compilation systems have demonstrated that dynamic compilation can achieve performance improvements at low cost on small kernels, but they have had difficulty scaling to larger programs. To overcome this limitation, we developed DyC, a selective dynamic compilation system that includes more sophisticated and flexible analyses and transformations. DyC is able to achieve good performance improvements on programs that are much larger and more complex than the kernels. We ...

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Concentrico - **Call** an expert before **moving** to Linux ... First, avoid using a method **call** as the termination criteria for a **loop**. For example, listing 2 will ...
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Code Optimization

The idea of this **optimization** strategy is to share a value instead of copying it.
 ... Often it is **moved** in front of a **loop**, to program start or even before ...
library.simugraph.com/articles/opti/optimizing.html - 42k - [Cached](#) - [Similar pages](#)

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 The program in part II is transformed by commando **loop optimization** (Sec- ...
 looks like a good candidate for commando **loop optimization** to **move** the **call** to ...
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Bandwidth Management

An important consideration before you **move** to 256 QAMs is the ability of deployed
 ... The Bandwidth **Optimization** steps described so far do not require large ...
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 back edge from F to the original **loop top**. After commando, there is an inner **loop**
 con- ... mando **loop optimization** to **move** the **call** to. ¢§ §!0H ...
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GNU Compiler Collection (GCC) Internals

Sibling **call optimization**. This pass performs tail recursion elimination, ...
Loop optimization. This pass **moves** constant expressions out of loops, ...
www.dis.com/gnu/gccint/Passes.html - 26k - [Cached](#) - [Similar pages](#)

[PPT] Feedback directed optimization in Compaq's compilation tools for Alpha

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 frequent paths are in inner **loop**. infrequent paths **moved** to outer **loop** ...
 FDO workshop. 24. Commando **loop optimization**. Make two **loop** bottoms ...
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CS 701, Assignment #1

Here the division is already at the **top** of the **loop** body, and subsequent ...
Loop unrolling could help, allowing a division in one iteration to **move** into an ...
www.cs.wisc.edu/~fischer/cs701.f03/asg1.html - 32k - [Cached](#) - [Similar pages](#)

GRAVITY.ASM -- Simple little gravity (orbits) demo in ...

... **Move call** **Move** mov bl,cl ;Color in AL, AH mov bh,cl add bh,8 **call** Draw **loop**
 ... This is **call** compare2 ; an important part of the **optimization** ; ; inner ...
members.tripod.com/~ladsoft/dos/gravity.txt - 12k - [Cached](#) - [Similar pages](#)

Basic Optimization